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(54) COMMUNICATION NETWORK CONTROLLER

(57)Abstract:

PROBLEM TO BE SOLVED: To improve a service grade by deciding the transmission line of a data packet by a network layer address, dynamically assigning an exclusive transmission line to a terminal in response to the request of the optional terminal and changing the data packet addressed to the assigned terminal to the exclusive transmission line so as to reserve a band on Internet.

SOLUTION: A subscriber gives a message that the reception of a hand-securing-type Internet access service is desired to a CATV center 1 by using a switch 14. The center 1 secures a transmission line; the subscriber transmitting the message can occupy. When the transmission line is secured, an Internet connecting device 21 within the center 1 searches the IP address of a subscriber's terminal 2 from a routing table entry and changes the value of a corresponding sending port to a port value for the secured transmission line. After then, a pair of the IP address and the multi-cast address of the terminal 2 is added to a table for a resource reservation protocol.

